

SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS TO IMPROVE  
PERFORMANCE OF PORTED APPLICATIONS, SUCH AS A DATABASE

ABSTRACT OF THE INVENTION

Systems, methods, and computer products that improve the performance of  
5 computer-implemented I/O operations for complex applications, such as a database, that  
are ported to target computer systems that are not tailored to support the high-  
performance services that may benefit applications. Complex applications, such as a  
database, often manage I/O access operations by a caching mechanism that is tailored to  
the needs of the application. When porting an application to a target computer system  
10 that does not support certain I/O access features, I/O performance of the application may  
be limited. The present invention may be implemented by introducing specialized I/O  
access features that are tailored to enhance I/O access performance for complex  
applications, such as a database.